

Berbamine Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Berbamine

Catalog No.: CFN98727

Cas No.: 478-61-5

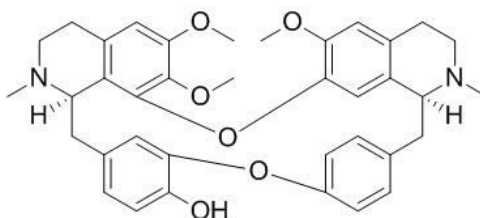
Purity: > 98%

M.F: C₃₇H₄₀N₂O₆

M.W: 608.72

Physical Description: Powder

Synonyms: 6,6',7-Trimethoxy-2,2'-dimethylberbaman-12-ol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The roots of *Cocculus orbiculatus* (L.) DC.

[Biological Activity or Inhibitors]

Berbamine is a novel inhibitor of bcr/abl fusion gene with potent anti-leukemia activity.^[1]

Berberamine demonstrates a significantly great capacity for inhibition of NK cell cytotoxicity, it has anti-inflammatory and immunosuppressive activity.^[2]

Berberamine exhibits potent antitumor effects on imatinib-resistant CML cells in vitro and in vivo. ^[3]

Berberamine can selectively induce apoptosis of human acute promyelocytic leukemia cells via survivin-mediated pathway.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile- Distilled water(pH1.5)=28:72 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 282 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Xu R, Dong Q, Yu Y, *et al. Leukemia Res.*, 2006, 30(1):17-23.

[2] Li S Y, Ling L H, Teh B S, *et al. Int. J. Immunopharmac.*, 1989, 11(4):395-401.

[3] Wei Y L, Xu L, Liang Y, *et al. Acta Pharmacol Sin.*, 2009, 30(4):451-7.

[4] Zhao X Y, He Z W, Wu D, *et al. Chinese Medical Journal*, 2007, 120(9):802-6.

[5] Taylor M W, Hershey H V, Levine R A, *et al. J. Chromatogr. A*, 1981, 219(1):133-9.

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